### **REMARKS**

The claims are 1 to 30.

The above amendment is responsive to points set forth in the Official Action.

With regard to the rejections of claims 15 and 16 as lacking antecedent basis, this has been corrected by making claims 15 and 16 depend on claim 14.

Claims 1 and 18 have been amended to insert the feature of component (F). Support is evident from the disclosure of page 30 e.g. lines 26 to 30 of the present specification.

The significance of this feature will be discussed below.

Claims 1 to 13 and 17 to 30 have been rejected under 35 U.S.C. 103(a) as being unpatentable over Mitsunaga et al. (JP 2001-323149).

Further, claims 14 to 16 have been rejected under 35 U.S.C. 103(a) as being unpatentable over Mitsunaga et al. (JP 2001-323149) as applied to claim 1 above, and further in view of Hiraishi et al. (WO 2002/099474).

These rejections are respectfully traversed.

A brief discussion of the present invention will be of assistance in appreciating Applicants' reasons for traversal of rejection.

The light diffusion sheet of the present invention contains substantially no hindered phenol compound (component F). The light diffusion sheet has excellent brightness (page 30, lines 12 to 30 of the present specification).

On the contrary, the composition of Mitsunaga et al. contains 0.001-1.0 parts by weight of hindered phenol compound. Mitsunaga et al. states that when the content of hindered phenol compound is less than 0.001 parts by weight, a dry heat color change resistance or a melt color change resistance are deteriorated (paragraph [0066]). This passage is a disincentive to arrive at the present invention.

In comparing Example 19 and Comparative Example 4 of the present specification, the brightness of light diffusion sheet is deteriorated if the composition contains hindered phenol compound. The light diffusion sheet of Example 19 contains ADEKASTAB PEP-8 (Distearyl Pentaerythritol Diphosphite). The light diffusion sheet of Comparative Example 4 contains

IRGANOX 1010 (Pentaerythritol tetrakis [3-(3,5-di-t-butyl-4-hydroxyphenyl)propionate]). Other components are the same in both compositions. The comparative table is shown below.

The light diffusion sheet of Example 19 has an average brightness of 5690. The light diffusion sheet of Comparative Example 4 has an average brightness of 5590. The difference of average brightness is 100. The brightness of Example 19 is essentially the same as Examples 20 to 22. The brightness of Comparative Example 4 is apparently lower than these Examples.

			Example 19	Comparative
				Example 4
	PC (A)	Mv = 23900	96.5	96.5
Component	Fine particles (B)	PARALOID EXL5136	3.5	3.5
(Parts by weight)	Heat stabilizer (C)	ADEKASTAB PEP-8	0.1	-
		Trimethyl Phosphate	0.05	0.05
	Ultraviolet absorber	CHEMISORB 79	0.27	0.27
	(D)			
	Fluorescent whitening	KAYALIGHT OS	0.02	0.02
	agent (E)	(Benzoxazole based)		
	Hindered phenol (F)	IRGANOX 1010	-	0.1
		(Comparison)		
Evaluation	Average brightness	cd/m²	5690	5590
Results	Total Light	%T	55	54
	Transmittance			
	Diffusibility	0	47	47
	Weather Resistance	Initial YI	4.4	4.7
		YI after 250 hrs.	4.1	4.2
		Initial YI (= $\Delta$ YI)		

The light diffusion sheet of the present invention has excellent brightness. Mitsunaga et al. is silent about an improvement of brightness.

Those skilled in the art could not arrive at the light diffusion sheet as presently claimed, containing substantially no hindered phenol compound having excellent brightness, light diffusibility and weather resistance.

The present light diffusion sheet having a protective film is also unobvious from Mitsunaga et al. in view of Hiraishi et al., even if Hiraishi et al. discloses a protective film.

There is nothing in Hiraishi et al. which overcomes the above-discussed deficiencies of Mitsunaga et al.

An English language version of the International Preliminary Report on Patentability is submitted herewith for the Examiner's consideration.

No further issues remaining, allowance of this application is respectfully requested.

If the Examiner has any comments or proposals for expediting prosecution, please contact undersigned at the telephone number below.

Respectfully submitted,

Isao SOGO et al.

y: Moon

Matthew M. Jacob Registration No. 25,154

Attorney for Applicants

MJ/aas Washington, D.C. 20006-1021 Telephone (202) 721-8200 Facsimile (202) 721-8250 April 10, 2008

### PATENT COOPERATION TREATY

### From the INTERNATIONAL BUREAU

### **PCT**

NOTIFICATION OF TRANSMITTAL
OF COPIES OF TRANSLATION
OF THE INTERNATIONAL PRELIMINARY REPORT
ON PATENTABILITY
(CHAPTER I OR CHAPTER II
OF THE PATENT COOPERATION TREATY)

(PCT Rules 44bis.3(c) and 72.2)

To

OHSHIMA, Masataka Ohshima Patent Office Fukuya Bldg. 3, Yotsuya 4-chome Shinjuku-ku, Tokyo 160-0004

JAPON



Date of mailing (day/month/year) 11 May 2006 (11.05.2006)	
Applicant's or agent's file reference G56KASEI	IMPORTANT NOTIFICATION
International application No. PCT/JP2004/008766	International filing date (day/month/year) 16 June 2004 (16.06.2004)
Applicant	TEIJIN CHEMICALS LTD. et al
· · · · · · · · · · · · · · · · · · ·	

1.	Transmittal	of the	translation	to	the a	pplicant.
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~	The International Bureau transmits herewith a copy of the English translation of the international preliminary report of patentability (Chapter I).

The International Bureau transmits herewith a copy of the English translation of the international preliminary report on patentability (Chapter II).

#### Transmittal of the copy of the translation to the designated or elected Offices.

The International Bureau notifies the applicant that copies of that translation have been transmitted to the following designated or elected Offices requiring such translation:

#### None

The following designated or elected Offices, having waived the requirement for such a transmittal at this time, will receive copies of that translation from the International Bureau only upon their request:

AE, AG, AL, AM, AP, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EA, EC, EE, EG, EP, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OA, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW

3. Reminder regarding translation into (one of) the official language(s) of the elected Office(s).

The applicant is reminded that, where a translation of the international application must be furnished to an elected Office, that translation must contain a translation of any annexes to the international preliminary report on patentability (Chapter II).

It is the applicant's responsibility to prepare and furnish such translation directly to each elected Office concerned within the applicable time limit (Rule 74.1). See Volume II of the PCT Applicant's Guide for further details.

The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland

Authorized officer

Masashi Honda

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### PATENT COOPERATION TREATY

# **PCT**

# INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY (Chapter I of the Patent Cooperation Treaty)

(PCT Rule 44bis)

Applicant's or agent's file reference G56KASEI	FOR FURTHER ACTION	See item 4 below			
International application No. PCT/JP2004/008766	International filing date (day/month/year) 16 June 2004 (16.06.2004)	Priority date (day/month/year) 17 June 2003 (17.06.2003)			
International Patent Classification (8th edition unless older edition indicated) See relevant information in Form PCT/ISA/237					
Applicant TEIJIN CHEMICALS LTD.					

1.	This international preliminary report on patentability (Chapter I) is issued by the International Bureau on behalf of the International Searching Authority under Rule 44 bis.1(a).				
2.	This REPORT consists of a total	of 5 sheets, including this cover sheet.			
	In the attached sheets, any refere to the international preliminary r	ence to the written opinion of the International Searching Authority should be read as a reference report on patentability (Chapter I) instead.			
3.	This report contains indications	relating to the following items:			
	Box No. I	Basis of the report			
	Box No. II	Priority			
	Box No. III	Non-establishment of opinion with regard to novelty, inventive step and industrial applicability			
	Box No. IV	Lack of unity of invention			
	Box No. V	Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement			
	Box No. VI	Certain documents cited			
	Box No. VII	Certain defects in the international application			
	Box No. VIII	Certain observations on the international application			
4.	The International Bureau will co not, except where the applicant r date (Rule 44bis .2).	mmunicate this report to designated Offices in accordance with Rules 44bis.3(c) and 93bis.1 but nakes an express request under Article 23(2), before the expiration of 30 months from the priority			
		Date of issuance of this report 01 May 2006 (01.05.2006)			

Authorized officer

Telephone No. +41 22 338 70 10

Masashi Honda

Facsimile No. +41 22 740 14 35 Form PCT/IB/373 (January 2004)

The International Bureau of WIPO 34, chemin des Colombettes

1211 Geneva 20, Switzerland

### PATENT COOPERATION TREATY

From the INTERNATIONAL SEARCHING AUTHORITY			ITY	ANC.			
To:					PCT PCT		
						RITTEN OPINION OF THE IONAL SEARCHING AUTHORITY	
						(PCT Rule 43bis.1)	
					Date of mailing (day/month/year)	19.10.2004	
	nt's or a	ngent's file reference EI	ce .		FOR FURTHER	ACTION See paragraph 2 below	
Internati	ional ap	pplication No.		International filing date	day/month/year)	Priority date (day/month/year)	
		2004/008	766	16.06.2004		17.06.2004	
Applica	nt						
1.	This	opinion contains in	dications rela	ting to the following items	::		
	$\boxtimes$	Box No. I	Basis of the	opinion			
Box No. II Priority							
		Box No. III	Non-establi	shment of opinion with reg	gard to novelty, inventi	ive step and industrial applicability	
		Box No. IV	Lack of unit	ty of invention			
	$\boxtimes$	Box No. V			is.1(a)(i) with regard to novelty, inventive step or industrial ons supporting such statement		
	Щ	Box No. VI	Certain doct	uments cited			
	Щ	Box No. VII	Certain defe	ects in the international app	plication		
<u> </u>		Box No. VIII	Certain obse	ervations on the internation	nal application		
2.	FUR'	THER ACTION					
If a demand for international preliminary examination is made, this opinion will be considered to be a written opinion of International Preliminary Examining Authority ("IPEA") except that this does not apply where the applicant chooses an Authority of than this one to be the IPEA and the chosen IPEA has notified the International Bureau under Rule 66.1bis(b) that written opinions this International Searching Authority will not be so considered.					oly where the applicant chooses an Authority other		
If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPE written reply together, where appropriate, with amendments, before the expiration of 3 months from the date of mailing of FCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later.					of 3 months from the date of mailing of Form		
For further options, see Form PCT/ISA/220.							
3.	For fi	rther details, see r	notes to Form	PCT/ISA/220.			
Name a	nd mail	ing address of the	ISA/		Authorized officer		
Trank di		accuress of the	1019		Addionized officer		
Faceimi	ie Na				Telephone No		

## WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.
PCT/JP2004/008766

Box	No. I Basis of this opinion	
1.	With regard to the language, this opinion has been established on the basis of the international application in the language in which filed, unless otherwise indicated under this item.	it was
	This opinion has been established on the basis of a translation from the original language into the following language, which is the language of a translation furnished for the purposes of international search (	under
	Rule 12.3 and 23.1(b)).	
2.	With regard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the cinvention, this opinion has been established on the basis of:	laimed
	a. type of material	
	a sequence listing	
ŀ	table(s) related to the sequence listing	
	b. format of material	•
	in written format	
	in computer readable form	
	c. time of filing/furnishing	
	contained in the international application as filed.	
	filed together with the international application in computer readable form.	
	furnished subsequently to this Authority for the purposes of search.	
3.	In addition, in the case that more than one version or copy of a sequence listing and/or table(s) relating thereto has been furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application of the filed or does not go beyond the application as filed, as appropriate, were furnished.	
4.	Additional comments:	
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### WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.
PCT/JP2004/008766

Rox			ule 43bis.1(a)(i) with regard to novelty, inventive step or industrial a porting such statement	pplicability;
1.	Statement			
	Novelty (N)	Claims	1-30	YES
		Claims		NO NO
	Inventive step (IS)	Claims	14-16	YES
		Claims	1-13, 17-30	ио
	Industrial applicability (IA)	Claims	1-30	YES
		Claims		NО

#### 2. Citations and explanations:

Document 1: JP 2001-323419 A (Teijin Kasei Kabushiki Kaisha), 20 November 2001 Full text; all drawings (Family: none)

Document 2: JP 9-96705 A (Dainippon Printing Co., Ltd.), 08 April 1997, Par. Nos. 0001, 0031 to 0032; Fig. 14 (Family: none)

Document 3: JP 11-326610 A (Nitto Denko Corp.), 26 November 1999, Full text; all drawings (Family: none)

The inventions in claims 1-10, 12, 13, 17-28, and 30 do not appear to involve an inventive step based on documents 1 and 2 cited in the ISR.

Document 1 describes an optical diffusing composition that is essentially the same as the inventions in claims 1-10, 12, 13, 17-28, and 30, made from an aromatic polycarbonate resin and polymer particles and including, as thermal stabilizers, a phosphate compound (including trimethylphosphate), a phosphate compound (including pentaerythritol diphosphite compounds), a phophonite compound, and an ultraviolet absorber and fluorescent brightener.

Document 2 describes the general structure of a direct backlight type liquid crystal display device with a diffuser plate.

Here the selection of the type of thermal stabilizer could be obtained appropriately as required by a person skilled in the art. Thus the combination of document 1 and document 2 to produce the invention in claims 1-10, 12, 13, 17-28, and 30 would be easy for a person skilled in the art.

The inventions in claims 11 and 29 do not appear to involve an inventive step based on documents 1, 2, and 3 cited in the ISR.

Document 3 describes setting the thickness of the diffusion plate in a liquid crystal display device, or the like, as appropriate based on, for example, the desired strength of optical diffusion, and describes setting the thickness to between  $1\mu m$  and 3mm.

International application No.

INTERNATIONAL SEARCHING AUTHORITY	PCT/JP2004/008766
Supplemental Box	
In case the space in any of the preceding boxes is not sufficient.  Continuation of: Box V	
Consequently, the adding of the general technic document 3 to the invention in document 1 and document according to claim 11 and 29 would be easy for a personal technic document 1.	nent 2 to produce the invention
The inventions in claims 14-16 are neither described the documents cited in the ISR nor found to be obvious	cribed nor suggested in any of s to a person skilled in the art.